

AUG 16 2006

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Leister et al.

Serial No.: 10/537,752

Filed: June 6, 2005

For: PROCESS FOR PRODUCING BOROSILICATE GLASSES, BORATE GLASSES AND CRYSTALLIZING BORON-CONTAINING MATERIALS

Art Unit: 1755

Examiner: Not Yet Assigned

Confirmation No.: 5178

Customer No.: 27623 Attorney Docket No.: 2133.089USU

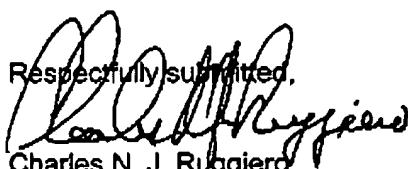
Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

REQUEST FOR CORRECTED FILING RECEIPT

Dear Sir:

The applicant is requesting that correction be made to the filing receipt. Please note that the "Title" should read: **Method for Producing Borosilicate Glass, Borate Glass and Crystallising Boron-Containing Materials** as stated on the first page of the specification filed on June 6, 2005. A copy of the original marked-up filing receipt and a copy of the first page of the specification are enclosed.

Please charge any additional fees or credit any such fees, if necessary to Deposit Account No. 01-0467 in the name of Ohlandt, Greeley, Ruggiero & Perle. A duplicate copy of this sheet is attached.

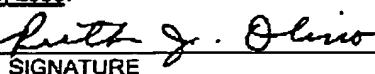
Respectfully submitted,


Charles N. J. Ruggiero
Reg. No. 28,468
Ohlandt, Greeley, Ruggiero & Perle, L.L.P.
One Landmark Square, 10th Floor
Stamford, Connecticut 06901-2682
(203) 327-4500

CERTIFICATE OF TRANSMISSION

I HEREBY CERTIFY THAT THIS CORRESPONDENCE IS BEING FACSIMILE TRANSMITTED TO THE FACSIMILE NUMBER 571-273-8300, 8 total pages, c/o MAIL STOP Amendment, COMMISSIONER FOR PATENTS, P.O. BOX 1450, ALEXANDRIA, VA 22313-1450, ON August 16, 2006.

Ruth J. Olivo
NAME


SIGNATURE

August 16, 2006
DATE

AUG 16 2006

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Leister et al.
 Serial No.: 10/537,752
 Filed: June 6, 2005
 For: PROCESS FOR PRODUCING BOROSILICATE GLASSES, BORATE GLASSES AND CRYSTALLIZING BORON-CONTAINING MATERIALS
 Art Unit: 1755
 Examiner: Not Yet Assigned
 Confirmation No.: 5178
 Customer No.: 27623 Attorney Docket No.: 2133.089USU

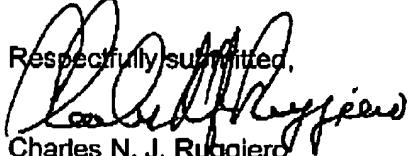
Mail Stop Amendment
 Commissioner for Patents
 P.O. Box 1450
 Alexandria, VA 22313-1450

REQUEST FOR CORRECTED FILING RECEIPT

Dear Sir:

The applicant is requesting that correction be made to the filing receipt. Please note that the "Title" should read: **Method for Producing Borosilicate Glass, Borate Glass and Crystallising Boron-Containing Materials** as stated on the first page of the specification filed on June 6, 2005. A copy of the original marked-up filing receipt and a copy of the first page of the specification are enclosed.

Please charge any additional fees or credit any such fees, if necessary to Deposit Account No. 01-0467 in the name of Ohlandt, Greeley, Ruggiero & Perle. A duplicate copy of this sheet is attached.

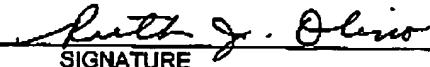
Respectfully submitted,


Charles N. J. Ruggiero
 Reg. No. 28,468
 Ohlandt, Greeley, Ruggiero & Perle, L.L.P.
 One Landmark Square, 10th Floor
 Stamford, Connecticut 06901-2682
 (203) 327-4500

CERTIFICATE OF TRANSMISSION

I HEREBY CERTIFY THAT THIS CORRESPONDENCE IS BEING FACSIMILE TRANSMITTED TO THE FACSIMILE NUMBER 571-273-8300. 6 total pages, c/o MAIL STOP Amendment, COMMISSIONER FOR PATENTS, P.O. BOX 1450, ALEXANDRIA, VA 22313-1450, ON August 16, 2006.

Ruth J. Olivo
 NAME


 SIGNATURE

August 16, 2006
 DATE



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

| APPL. NO. | FILING OR 371 (e) DATE | ART. UNIT | FIL. FEE REC'D | ATTY. DOCKET NO. | DRAWINGS | TOT CLMS | IND CLMS |
|------------|------------------------|-----------|----------------|------------------|----------|----------|----------|
| 10/537,752 | 12/05/2005 | 1755 | 1880 | 2133.089USU | 1 | 37 | 2 |

CONFIRMATION NO. 5178

27623
OHLANDT, GREELEY, RUGGIERO & PERLE, LLP
ONE LANDMARK SQUARE, 10TH FLOOR
STAMFORD, CT 06901

FILING RECEIPT



OC000000018122408

Date Mailed: 02/27/2006

Receipt is acknowledged of this regular Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please mail to the Commissioner for Patents P.O. Box 1450 Alexandria Va 22313-1450. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

Applicant(s)

Michael Leister, Budenheim, GERMANY;
Uwe Kolberg, Mainz, GERMANY;
Werner Thomas Kiefer, Mainz, GERMANY;
Sybill Nuttgens, Frankfurt, GERMANY;
Alexander Penkert, Eich, GERMANY;
Silke Wolff, Huckeswagen, GERMANY;
Nicole Surges, Bingen, GERMANY;

Power of Attorney: The patent practitioners associated with Customer Number 27623.

Domestic Priority data as claimed by applicant

This application is a 371 of PCT/EP03/13576 12/02/2003

Foreign Applications

GERMANY 10257049.3 12/06/2002

Projected Publication Date: 06/01/2006

Non-Publication Request: No

Early Publication Request: No

Title

Method for producing borosilicate glass, borate glass and crystallising materials containing boron
boron-containing materials

Preliminary Class

501

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process simplifies the filing of patent applications on the same invention in member countries, but does not result in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at <http://www.uspto.gov/web/offices/pac/doc/general/index.html>.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, <http://www.stopfakes.gov>. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4158).

**LICENSE FOR FOREIGN FILING UNDER
Title 35, United States Code, Section 184
Title 37, Code of Federal Regulations, 5.11 & 5.15**

GRANTED

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Bureau of Industry and Security, Department of Commerce (15 CFR parts 730-774); the Office of Foreign Assets Control, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

NOT GRANTED

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).

01SGL0497USP

Schott AG

Process for producing borosilicate glasses, borate glasses and crystallizing boron-containing materials

Description

5

The invention relates to a process for producing boron-containing materials. In particular, the invention relates to a process for producing boron-containing, low-alkali materials by means of inductive heating of the melting 10 material.

In technical applications, borosilicate glasses are used as laboratory glass, for ampoules in the pharmaceutical industry and as incandescent lamp glasses, on account of their good 15 chemical resistance and their relatively low thermal expansion. These glasses have a high SiO_2 content of 73 - 86%, a B_2O_3 content of 6 - 13%, an Al_2O_3 content of 1 - 5% and an alkali metal content of 2 - 9% (mol%).

20 In the case of the optical glasses, the B_2O_3 content may also be over 13% and may be as much as over 75 mol%. The high B_2O_3 content results in high Abbe numbers, i.e. a low level of light scattering. These glasses are therefore used in lens systems to correct the chromatic aberration.

25

Glasses which contain only or predominantly B_2O_3 as networkformer agent are known as borate glasses, by analogy to silicate glasses. The borosilicate glasses contain both SiO_2 and B_2O_3 as network formers and in terms of their 30 composition are therefore between the silicate glasses and the borate glasses.